



DB101S THRU DB107S

Voltage Range - 50 to 1000 Volts Current - 1.0 Ampere

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

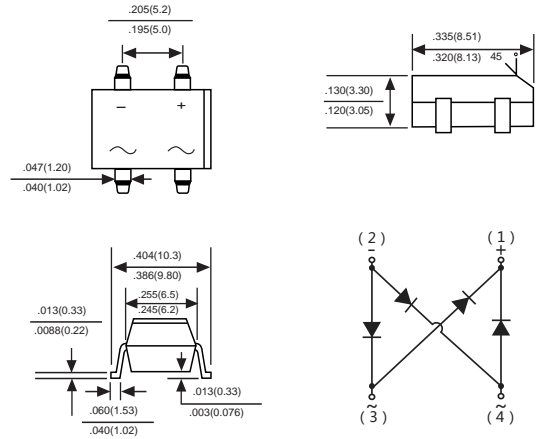
Features

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability



Mechanical Data

Case : JEDEC DBS Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on case
Mounting Position : Any
Weight : 0.02 ounce, 0.4 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Parameter | SYMBOLS | MDD | MDD | MDD | MDD | MDD | MDD | MDD | UNITS |
|---|-------------|-------------|--------|--------|--------|--------|--------|--------|--------------------|
| | | DB101S | DB102S | DB103S | DB104S | DB105S | DB106S | DB107S | |
| Marking Code | | | | | | | | | |
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified current at $T_C=40^\circ C$ | $I_{F(AV)}$ | 1.0 | | | | | | | A |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 50 | | | | | | | A |
| Maximum instantaneous forward voltage drop per leg at 1A | V_F | 1.1 | | | | | | | V |
| Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ C$ $T_A=100^\circ C$ | I_R | 10 500 | | | | | | | μA μA |
| Operating temperature range | T_J | -55 to +150 | | | | | | | $^\circ C$ |
| storage temperature range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ |

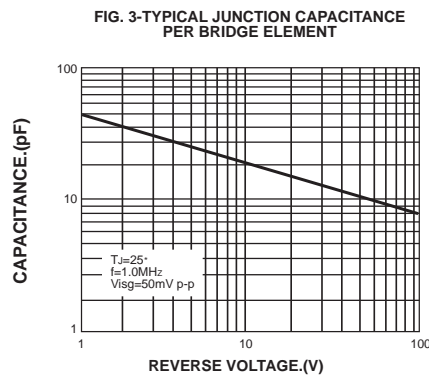
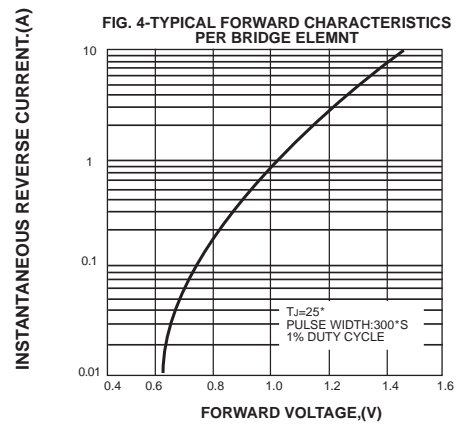
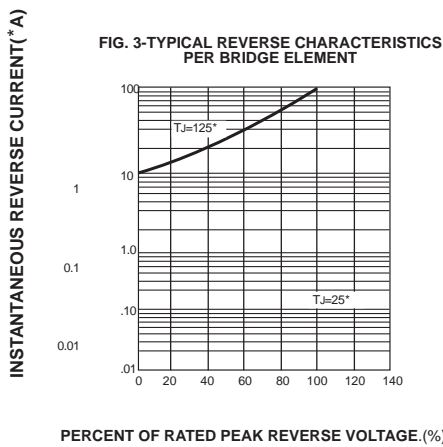
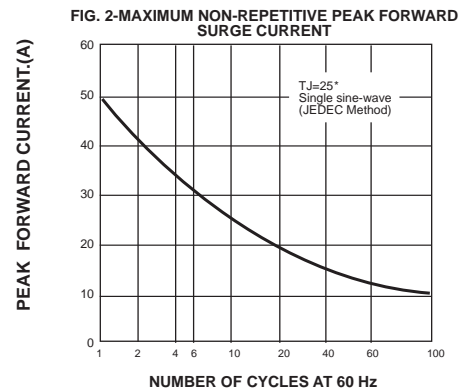
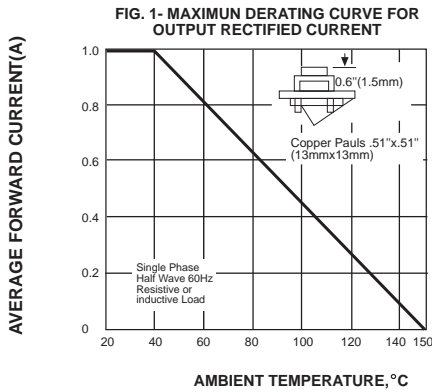
NOTES: DBS for surface mount package.



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Ratings And Characteristic Curves



The curve above is for reference only.